



NEW MEXICO
ENVIRONMENT DEPARTMENT

Ground Water Quality Bureau

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GROUND WATER QUALITY BUREAU
DISCHARGE PERMIT
Issued under 20.6.2 NMAC

Facility Name: Rosa Mora
Discharge Permit Number: DP-1732
Facility Location: One mile west of Highway 54 on Otero County Road B028
Three Rivers, NM

County: Otero

Permittee: Cannon Industries, LLC
Mailing Address: Colin Cannon, Owner
P.O. Box 1910
Alto, NM 88312

Facility Contact: Colin Cannon
Telephone Number/Email: (575) 258-5030/ruidososepticnm@gmail.com

Permitting Action: Modification

Permit Issuance Date: DATE
Permit Expiration Date: DATE

NMED Permit Contact: Avery Young
Telephone Number/Email: (505) 699-8564/avery.young@state.nm.us

MICHELLE HUNTER
Chief, Ground Water Quality Bureau
New Mexico Environment Department

Date

TABLE OF CONTENTS

I.	INTRODUCTION	1
II.	FINDINGS.....	3
III.	AUTHORIZATION TO DISCHARGE	3
IV.	CONDITION	4

ATTACHMENTS

Discharge Permit Summary
Table of 20.6.2.3103 Standards for Groundwater
Surface Disposal Data Sheet (SDDS-Septage/Sludge -
<https://www.env.nm.gov/gwb/forms.htm>)

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I. INTRODUCTION

The New Mexico Environment Department (NMED) issues this groundwater Discharge Permit Modification to Cannon Industries, LLC (Permittee) pursuant to the New Mexico Water Quality Act (WQA), NMSA 1978 §§74-6-1 through 74-6-17, and the New Mexico Water Quality Control Commission (WQCC) Ground and Surface Water Protection Regulations, 20.6.2 NMAC. This Discharge Permit Modification, together with the Discharge Permit renewed and modified on April 11, 2016, constitute the entire Discharge Permit, hereafter referred to as the “Discharge Permit” or “DP-1732” for Rosa Mora (Facility).

NMED's purpose in issuing this Discharge Permit Modification, and in imposing the requirements and conditions specified herein, is to control the discharge of water contaminants from the Facility in order to protect groundwater and those segments of surface water gaining from groundwater inflow for present and potential future use as domestic and agricultural water supply and other uses, and to protect public health. It is NMED's determination in issuing this Discharge Permit Modification that the Permittee has met the requirements of Subsection C of 20.6.2.3109 NMAC. The Permittee is responsible for complying with the terms and conditions of the Discharge Permit pursuant to Section 20.6.2.3104 NMAC; failure to do so may result in enforcement action by NMED (20.6.2.1220 NMAC).

Described below are the authorized Facility activities that produce the discharge, the location of the discharge, and the quantity, quality and flow characteristics of the discharge.

The Facility processes and discharges domestic septage at a volume up to 20,000 gallons per day (gpd), domestic wastewater treatment facility sludge at a volume up to 4,000 gpd, and grease trap/interceptor waste at a volume up to 5,000 gpd onto the land surface for disposal. Vehicle wash sump waste and mechanic shop oil/water separator waste at a volume up to 4,000 gallons per week may be dewatered on site and the aqueous portion may be discharged to an impoundment for disposal by evaporation. As of the effective date of this Discharge Permit Modification, the processing system to dry the solids and evaporate the liquids associated with the vehicle wash sump waste and mechanic shop oil/water separator waste has not been developed. The Facility has a total area of 40 acres.

This Discharge Permit Modification consists of an increase in the maximum daily discharge volume for domestic septage from 15,000 to 20,000 gpd and the addition of a new disposal cell for domestic septage (C7 DST). This Discharge Permit Modification results in a change to a single condition within the Discharge Permit, Condition 32.

The discharge may contain water contaminants or toxic pollutants elevated above the standards of Section 20.6.2.3103 NMAC and is not subject to the exemption at Subsection 20.6.2.3105.A NMAC.

The Facility is located one mile west of Highway 54 on Otero County Road B028, approximately 26 miles south of Carrizozo, in Section 33, Township 11S, Range 09E, Otero County. A discharge at the Facility is most likely to affect groundwater at a depth of approximately 240 feet and having a total dissolved solids (TDS) concentration of approximately 1,796 milligrams per liter.

NMED issued the original Discharge Permit to the Permittee on June 25, 2010 and subsequently renewed and modified the Discharge Permit on April 11, 2016. The application (i.e., discharge plan) associated with this Discharge Permit Modification consists of the materials submitted by the Permittee dated April 2, 2020, and materials contained in the administrative record prior to issuance of this Discharge Permit. The Permittee shall manage the discharge in accordance with all conditions and requirements of the Discharge Permit.

NMED reserves the right to require a Discharge Permit modification in the event NMED determines that the Permittee is or may be violating, or is likely to violate in the future, the requirements of 20.6.2 NMAC or the standards of Section 20.6.2.3103 NMAC. NMED reserves this right pursuant to Section 20.6.2.3109 NMAC. An NMED requirement to modify the Discharge Permit may result from a determination by NMED that structural controls and/or management practices approved under this Discharge Permit are insufficiently protective of groundwater quality and human health. NMED reserves the right to require the Permittee implement abatement of water pollution and remediate groundwater quality.

NMED issuance of this Discharge Permit Modification does not relieve the Permittee of the responsibility to comply with the WQA, WQCC Regulations, and any other applicable federal, state and/or local laws and regulations, such as zoning requirements and nuisance ordinances.

This Discharge Permit may use the following acronyms and abbreviations.

Abbreviation	Explanation	Abbreviation	Explanation
BOD ₅	biochemical oxygen demand (5-day)	NMSA	New Mexico Statutes Annotated
CFR	Code of Federal Regulations	NO ₃ -N	nitrate-nitrogen
CFU	colony forming unit	NTU	nephelometric turbidity units
Cl	chloride	QA/QC	Quality Assurance/Quality Control
EPA	United States Environmental Protection Agency	SDDS	Surface Disposal Data Sheet
gpd	gallons per day	TDS	total dissolved solids
LAA	land application area	TKN	total Kjeldahl nitrogen
LADS	Land Application Data Sheet(s)	total nitrogen	= TKN + NO ₃ -N
mg/L	milligrams per liter	TRC	total residual chlorine
mL	milliliters	TSS	total suspended solids
MPN	most probable number	WQA	New Mexico Water Quality Act

Abbreviation	Explanation		Abbreviation	Explanation
NMAC	New Mexico Administrative Code		WQCC	Water Quality Control Commission
NMED	New Mexico Environment Department		WWTF	Wastewater Treatment Facility

II. FINDINGS

In issuing this Discharge Permit, NMED finds the following.

1. The Permittee is discharging effluent or leachate from the Facility so that such effluent or leachate may move into groundwater of the State of New Mexico that has an existing concentration of 10,000 mg/L or less of TDS, within the meaning of Subsection A of 20.6.2.3101 NMAC, without exceeding standards of 20.6.2.3103 NMAC for any water contaminant.
2. The Permittee is allowed to discharge effluent or leachate from the Facility directly or indirectly into groundwater pursuant to this Discharge Permit and Sections 20.6.2.3000 through 20.6.2.3114 NMAC.
3. The discharge from the Facility is not subject to any of the exemptions of Section 20.6.2.3105 NMAC.

III. AUTHORIZATION TO DISCHARGE

The Permittee is responsible for ensuring that discharges authorized by the Discharge Permit are consistent with the terms and conditions of the Discharge Permit pursuant to 20.6.2.3104 NMAC.

- Domestic Septage – This Discharge Permit authorizes the Permittee to receive and discharge up to 20,000 gpd of domestic septage (including portable toilet waste) to five surface disposal cells totaling 19.42 acres on a rotational basis.
- Domestic Sludge – This Discharge Permit authorizes the Permittee to receive and discharge up to 4,000 gpd of liquid, semi-solid, and solid domestic wastewater treatment facility sludge to one surface disposal cell totaling 2.75 acres.
- Grease Trap/Interceptor Waste – This Discharge Permit authorizes the Permittee to receive and discharge up to 5,000 gpd of the aqueous portion of grease trap/interceptor waste to one surface disposal cell totaling 2.75 acres. This Discharge Permit only authorizes the Permittee to discharge the aqueous portion of grease trap/interceptor waste to the land surface.
- Vehicle/Equipment Grit Trap Waste – This Discharge Permit authorizes the Permittee to dewater up to 4,000 gallons per week of vehicle/equipment grit trap waste on two concrete dewatering beds and to discharge the decanted liquid to a lined evaporative impoundment for disposal.

The Permittee may not receive any other waste types at the Facility or remediate waste in the cells or impoundment.

[20.6.2.3104 NMAC, Subsection C of 20.6.2.3106 NMAC, Subsection D of 20.6.2.3109 NMAC]

IV. CONDITIONS

#	Terms and Conditions
32.	<p>For each cell that receives domestic septage (C3 DST, C4 DST, C5 DST, C6 DST, and C7 DST), the Permittee shall complete a SDDS (copy enclosed) on a monthly basis to document the amount of nitrogen applied to each surface disposal cell. The Permittee shall complete a SDDS for each cell and shall reflect the volume of domestic septage and the total nitrogen concentration of the waste discharged to the land disposal cells for each month. The total nitrogen concentration shall be determined from either of the following methods:</p> <ol style="list-style-type: none">1) Assuming total nitrogen concentration of 600 mg/L based on average characteristics of septage (Guide to Septage Treatment and Disposal, EPA/625/R-94-002); or2) Assuming a total nitrogen value derived from the laboratory analysis of a composite sample from a minimum of six waste loads using a sampling protocol approved by NMED prior to sample collection. <p>The Permittee shall not adjust Nitrogen content to account for volatilization or mineralization processes. The Permittee shall submit each SDDS, or a statement that no surface disposal occurred within the specific cell, to NMED in the semi-annual monitoring reports.</p> <p>[20.6.2.3109 NMAC]</p>